

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059282.D
 Acq On : 18 Nov 2019 14:38
 Operator : JC/SP
 Sample : K5900-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30695

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:03:04 AM

Quant Time: Nov 19 07:50:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	475309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	744330	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	651777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	511772	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	274769	47.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.06%	
35) Dibromofluoromethane	7.57	113	200766	45.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.34%	
50) Toluene-d8	10.08	98	911384	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.40	95	329647	52.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.46%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.39	74	40969	13.356	ug/l	92
11) Tert butyl alcohol	4.75	59	1163938m	1045.291	ug/l	
16) Acetone	3.79	43	4304447	1416.703	ug/l	93
18) Methyl Acetate	4.30	43	728178	100.970	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	2241622	146.844	ug/l	98
20) Methylene Chloride	4.53	84	11972	2.262	ug/l	95
25) 2-Butanone	6.81	43	1662490	415.168	ug/l	99
29) Tetrahydrofuran	7.19	42	94547	37.159	ug/l	99
31) Cyclohexane	7.64	56	52585	5.781	ug/l #	76
39) Methylcyclohexane	9.07	83	37860	4.689	ug/l	94
40) Benzene	8.02	78	6223204	297.037	ug/l #	86
43) Isopropyl Acetate	8.15	43	174387m	14.133	ug/l	
51) 4-Methyl-2-Pentanone	9.97	43	468584	67.115	ug/l	98
52) Toluene	10.15	92	4638092	369.352	ug/l #	70
67) Ethyl Benzene	11.51	91	4891106	216.970	ug/l #	72
68) m/p-Xylenes	11.62	106	6872114	813.822	ug/l #	51
69) o-Xylene	11.95	106	4225327	517.777	ug/l	56
73) Isopropylbenzene	12.25	105	167252	4.493	ug/l	100
78) n-propylbenzene	12.59	91	125018	2.933	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	389844	12.359	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1462164	47.911	ug/l	96
85) sec-Butylbenzene	13.17	105	50170	1.416	ug/l	84
86) p-Isopropyltoluene	13.30	119	53966	1.725	ug/l #	75
89) n-Butylbenzene	13.62	91	53375m	1.949	ug/l	
95) Naphthalene	15.13	128	953031	36.793	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

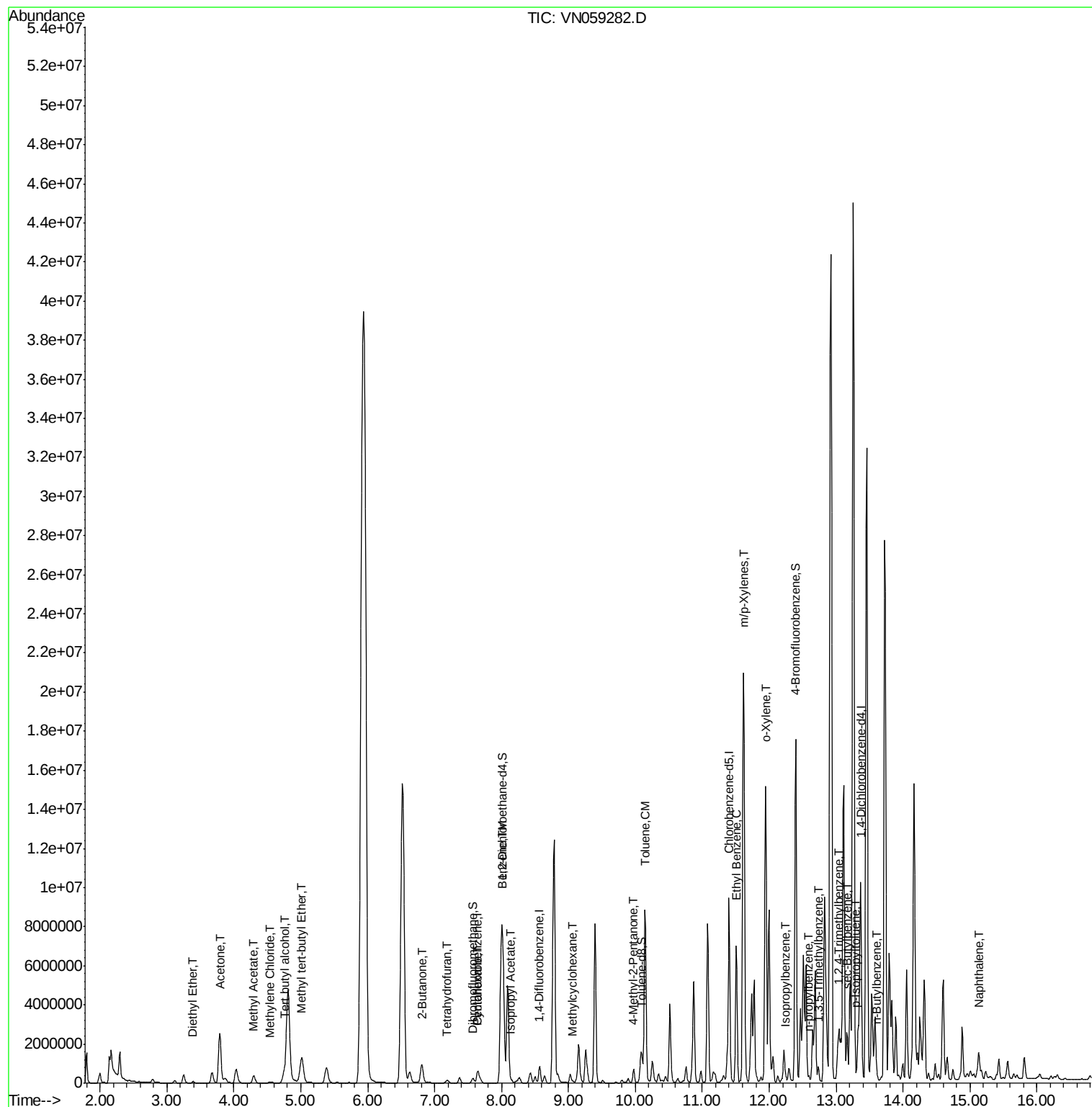
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
Data File : VN059282.D
Acq On : 18 Nov 2019 14:38
Operator : JC/SP
Sample : K5900-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

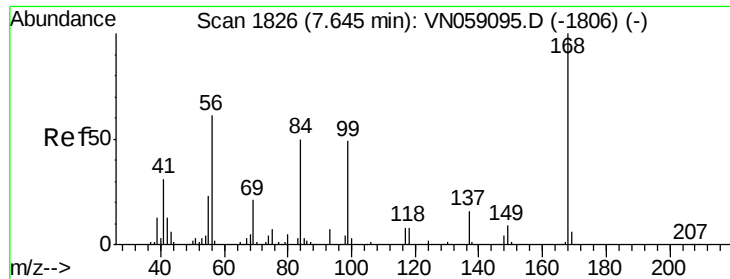
Instrument :
MSVOA_N
ClientSampleId :
30695

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Quant Time: Nov 19 07:50:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampled :

30695

Tot Ion:168 Resp: 475309

Ion Ratio Lower Upper

168 100

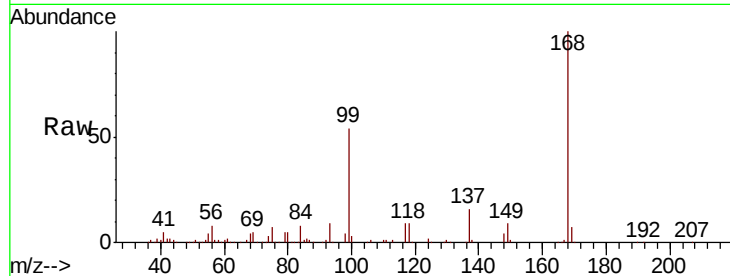
99 54.5 45.7 68.5

Manual Integrations

APPROVED

MMDADODA

11/19/2019 11:03:04 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

200000

150000

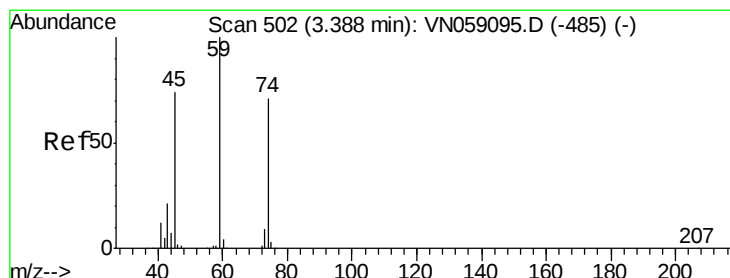
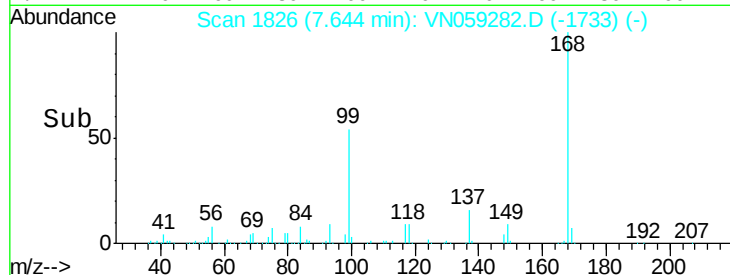
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#8

Diethyl Ether

Concen: 13.356 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN059282.D

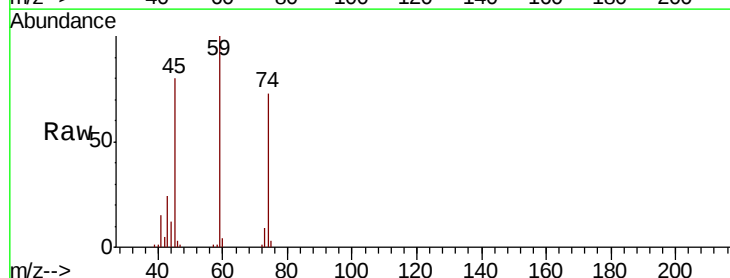
Acq: 18 Nov 2019 14:38

Tgt Ion: 74 Resp: 40969

Ion Ratio Lower Upper

74 100

45 111.4 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

100000

80000

60000

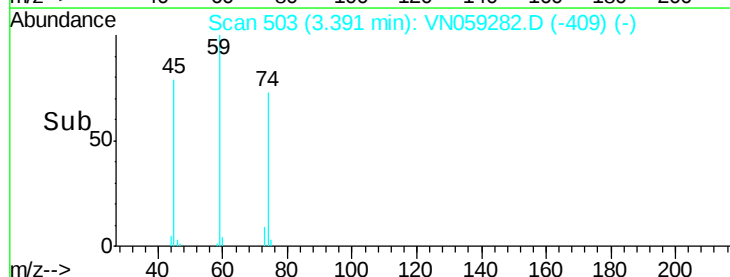
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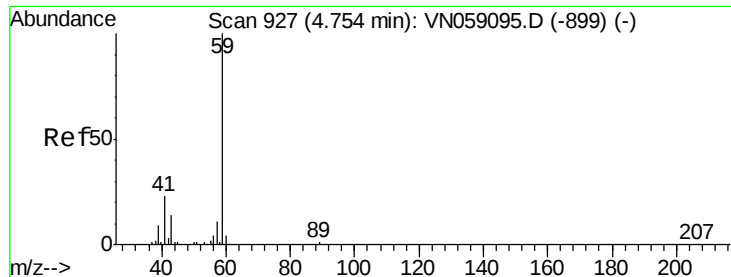
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3.30 3.40 3.50

Time-->





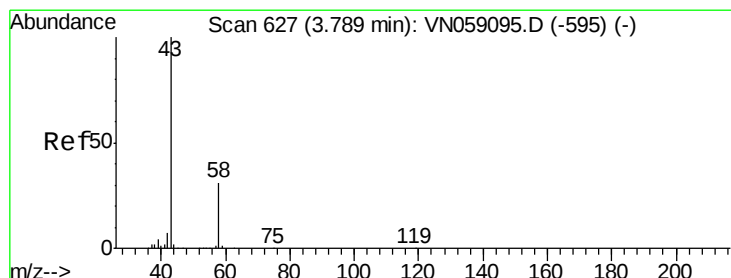
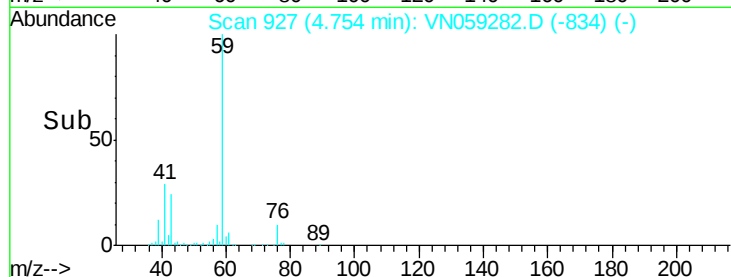
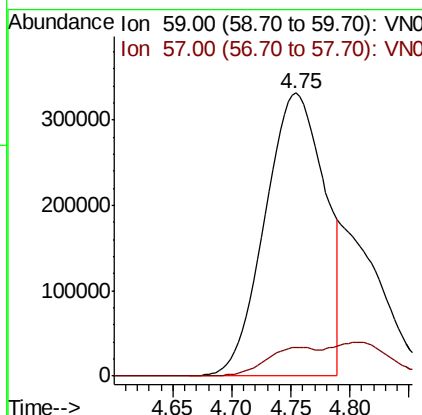
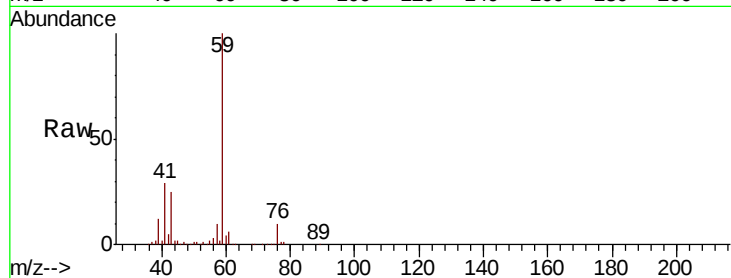
#11
Tert butyl alcohol
Concen: 1045.291 ug/l m
RT: 4.75 min Scan# 927
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampled :
30695

Tot Ion: 59 Resp: 1163938
Ion Ratio Lower Upper
59 100
57 8.6 8.3 12.5

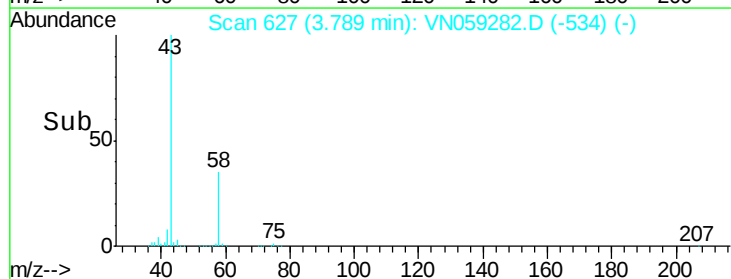
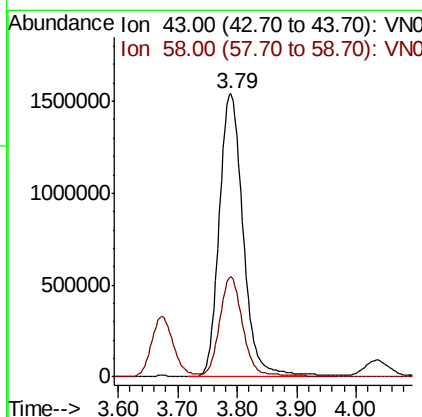
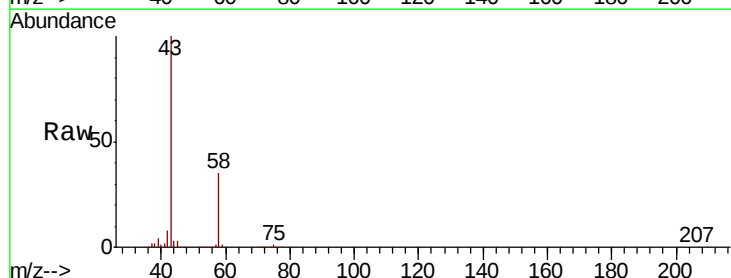
Manual Integrations
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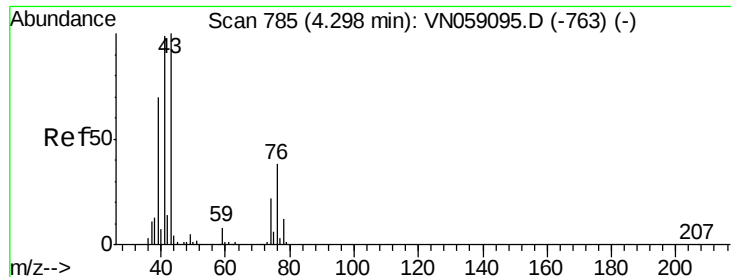
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#16
Acetone
Concen: 1416.703 ug/l
RT: 3.79 min Scan# 627
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Tgt Ion: 43 Resp: 4304447
Ion Ratio Lower Upper
43 100
58 35.1 24.9 37.3





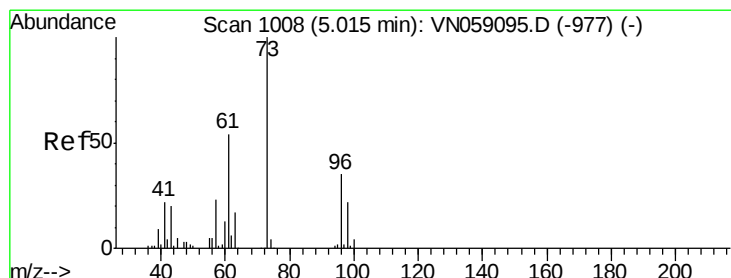
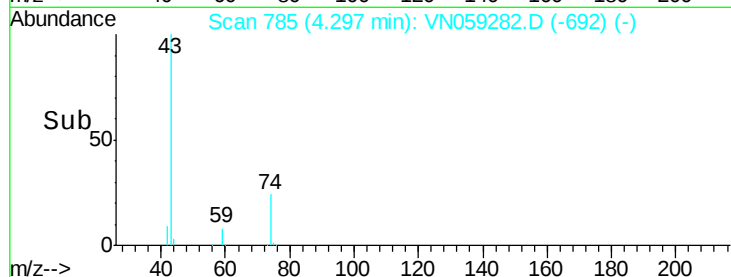
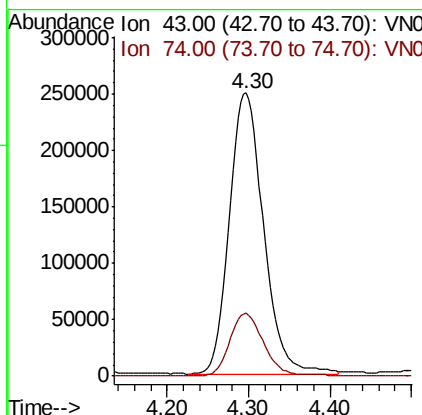
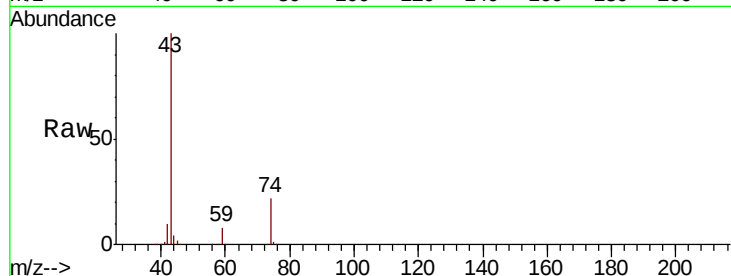
#18
Methyl Acetate
Concen: 100.970 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampled :
30695

Tot Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.8	26.8

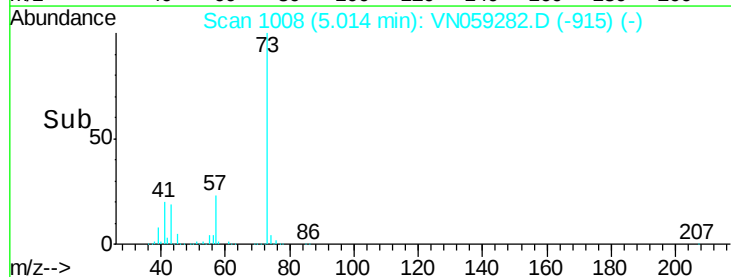
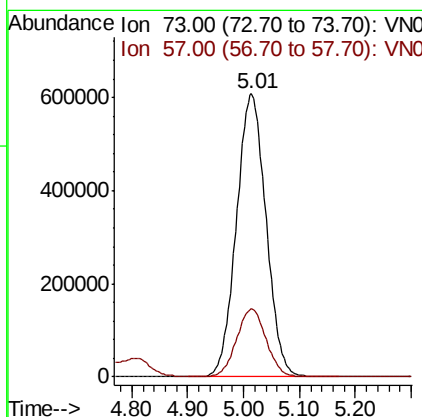
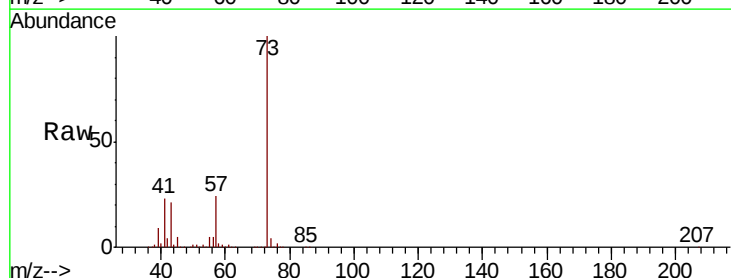
Manual Integrations
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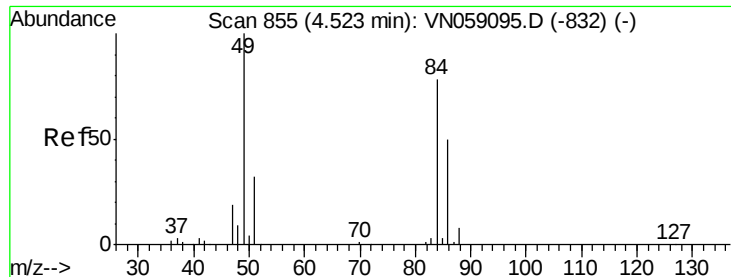
MMDADODA
11/19/2019 11:03:04 AM



#19
Methyl tert-butyl Ether
Concen: 146.844 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.0	18.4	27.6





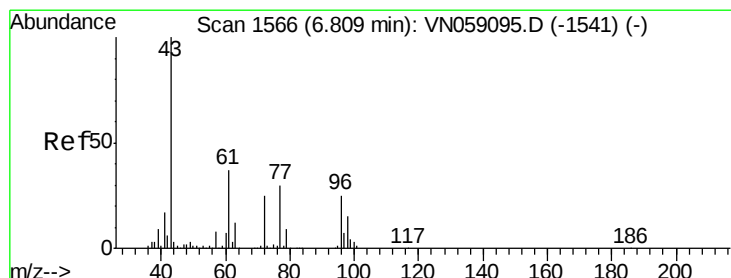
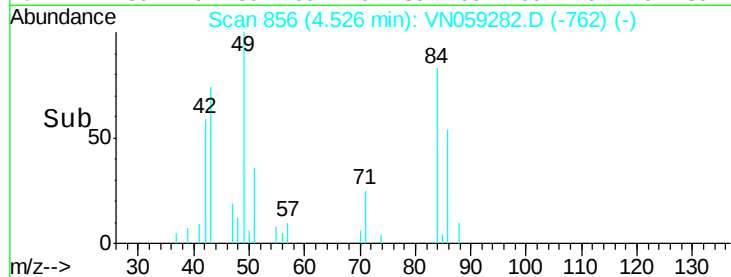
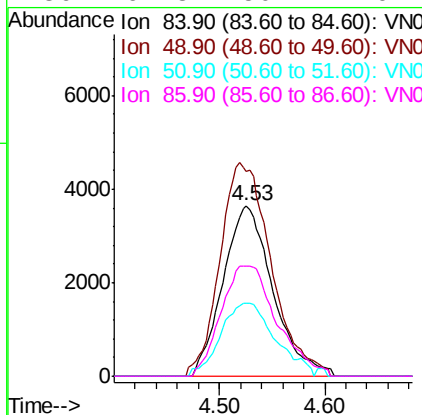
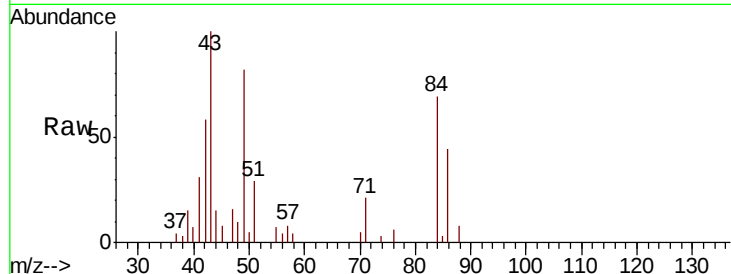
#20
Methvlene Chloride
Concen: 2.262 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampled :
30695

Tot Ion	Ratio	Lower	Upper
84	100		
49	119.9	102.0	153.0
51	43.0	32.2	48.2
86	64.8	50.7	76.1

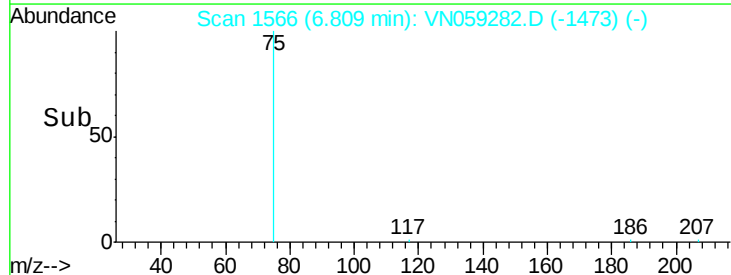
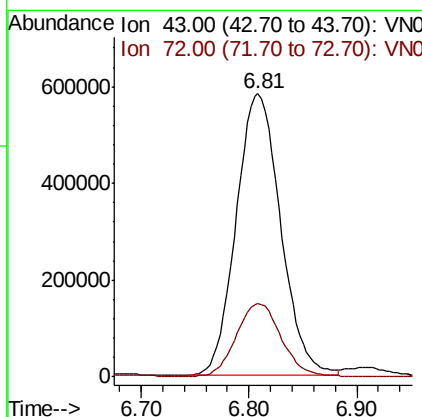
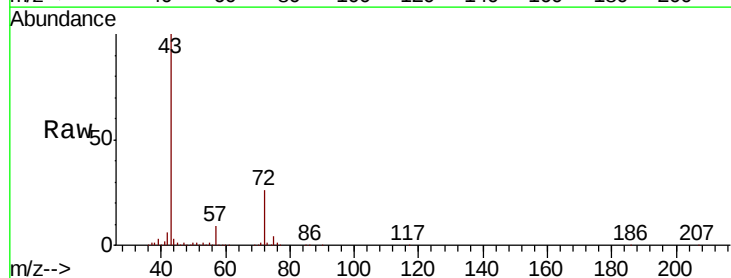
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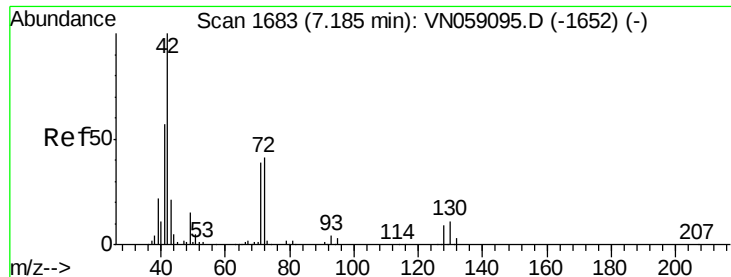
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11/19/2019 11:03:04 AM



#25
2-Butanone
Concen: 415.168 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.7	20.3	30.5





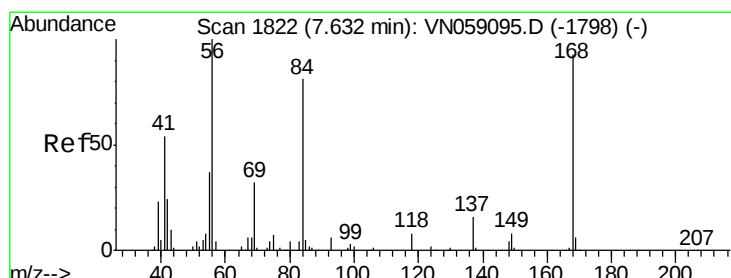
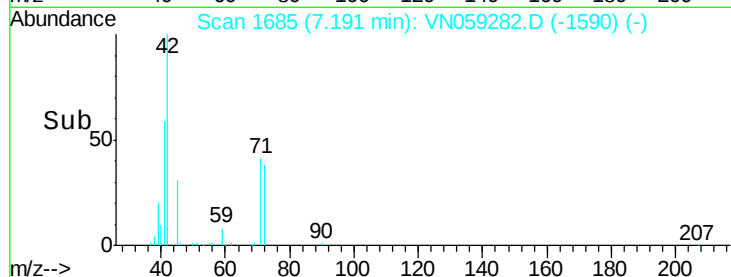
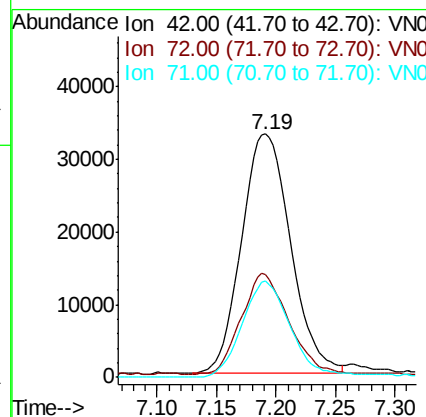
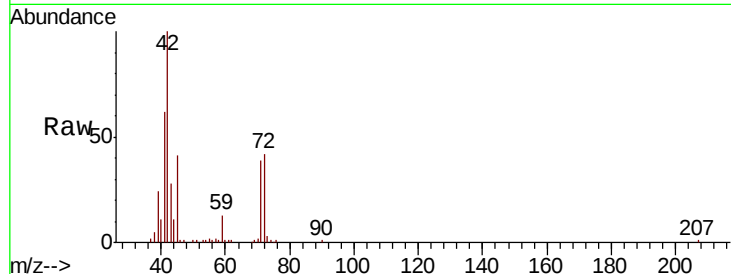
#29
Tetrahydrofuran
Concen: 37.159 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampled :
30695

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.8	33.1	49.7
71	39.4	30.9	46.3

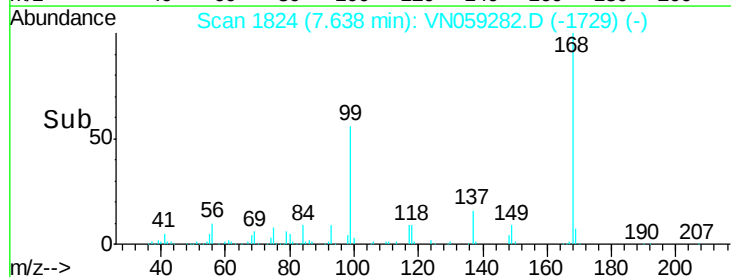
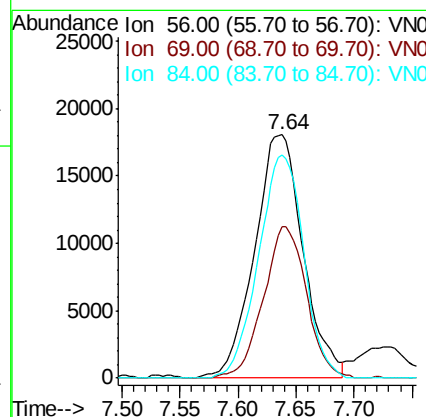
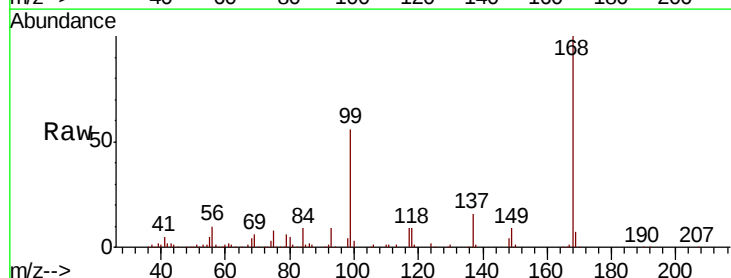
Manual Integrations
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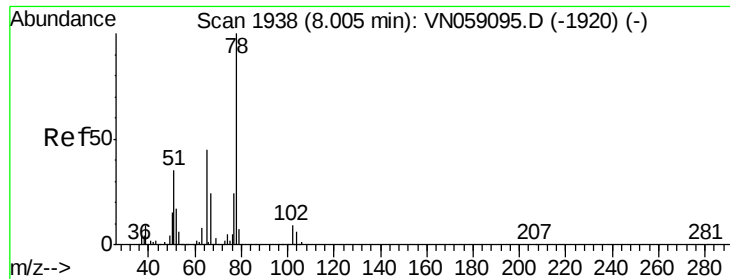
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11/19/2019 11:03:04 AM



#31
Cyclohexane
Concen: 5.781 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Tgt Ion	Ratio	Lower	Upper
56	100		
69	62.3	25.8	38.8#
84	91.9	65.0	97.4





#33

1,2-Dichloroethane-d4

Concen: 47.027 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

30695

Tot Ion: 65 Resp: 274769

Ion Ratio Lower Upper

65 100

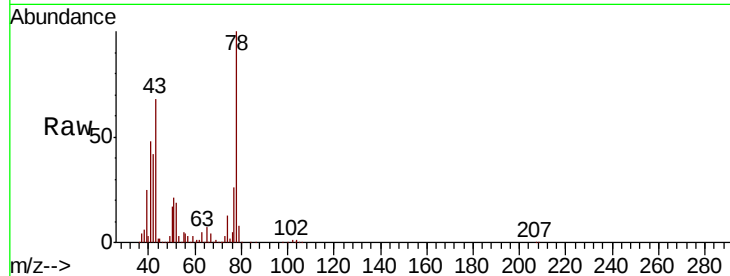
67 54.4 0.0 107.4

Manual Integrations

APPROVED

MMDADODA

11/19/2019 11:03:04 AM



Abundance Ion 64.90 (64.60 to 65.60): VN059282.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059282.D (-1845) (-)

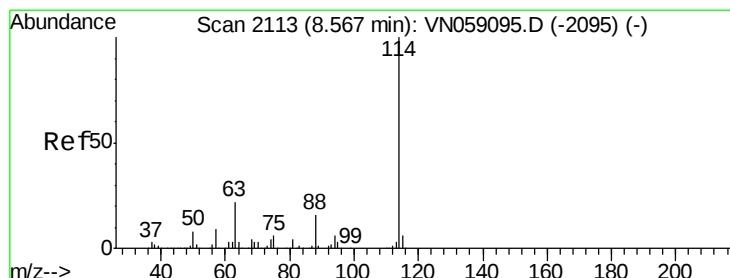
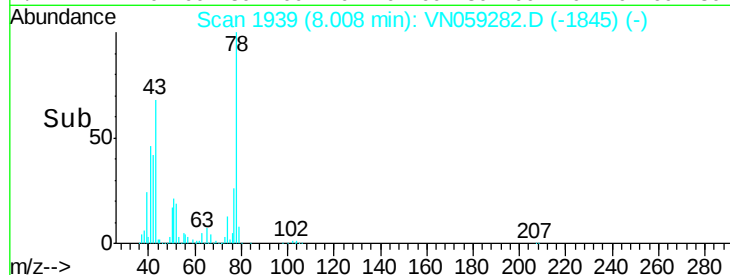
8.01

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

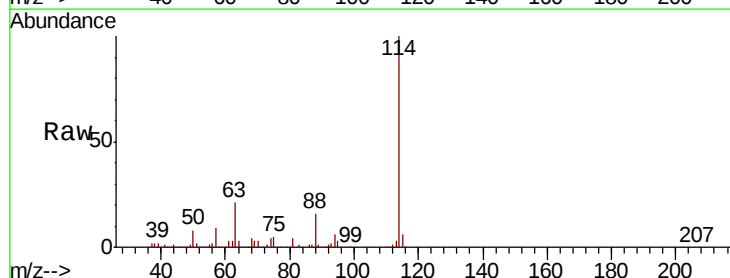
Tgt Ion: 114 Resp: 744330

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.4

88 16.1 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN059282.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN059282.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN059282.D (-2020) (-)

8.57

500000

400000

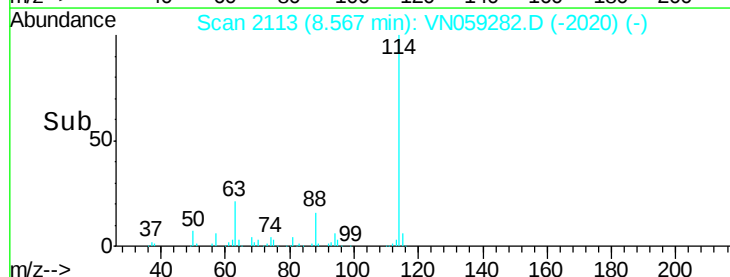
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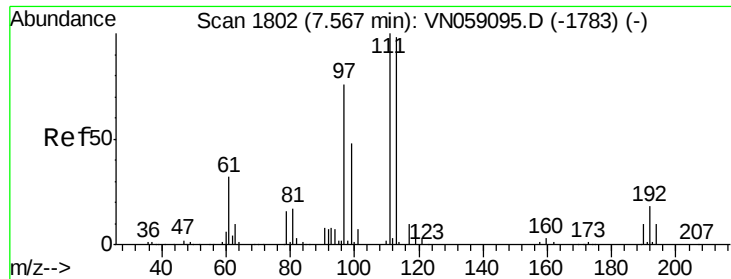
200000

100000

0

Time-->





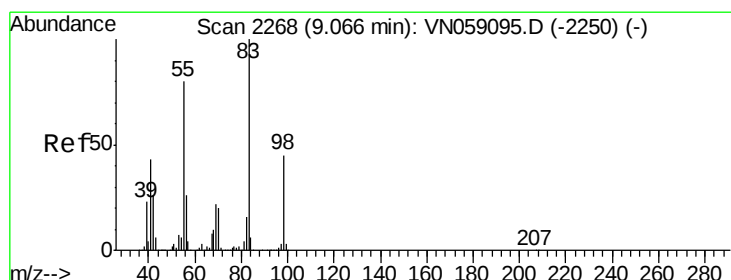
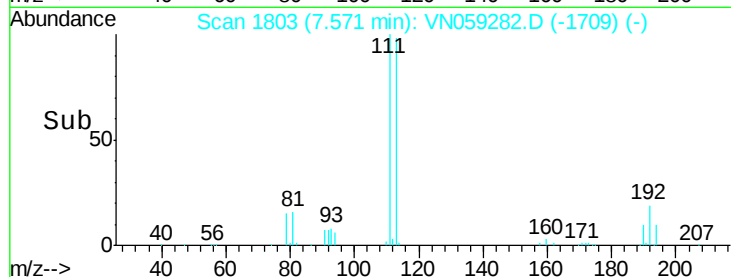
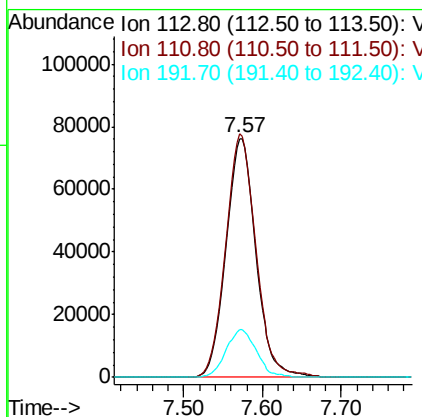
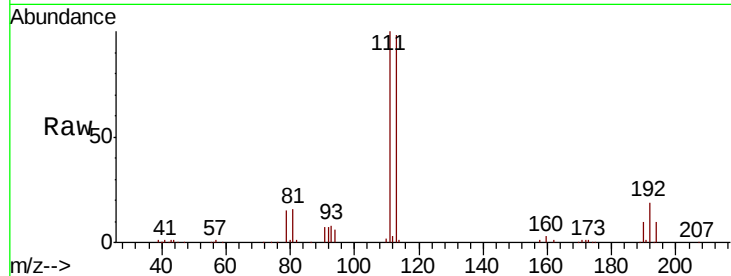
#35
Dibromofluoromethane
Concen: 45.173 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampleId :
30695

Tot Ion	Ratio	Resp	Lower	Upper
113	100	200766		
111	102.7		82.8	124.2
192	20.4		16.1	24.1

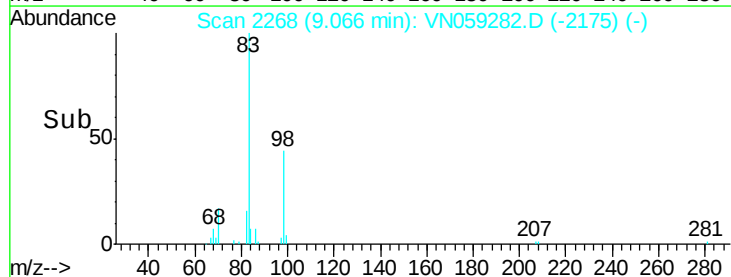
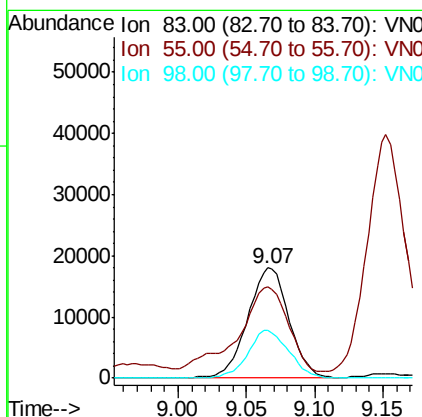
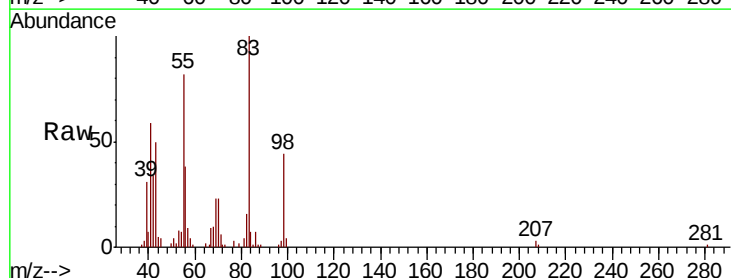
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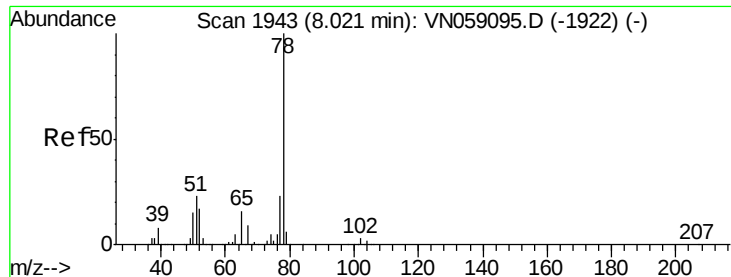
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#39
Methylcyclohexane
Concen: 4.689 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	37860		
55	72.0		63.9	95.9
98	43.9		35.6	53.4





#40

Benzene

Concen: 297.037 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

30695

Tot Ion: 78 Resp: 6223204

Ion Ratio Lower Upper

78 100

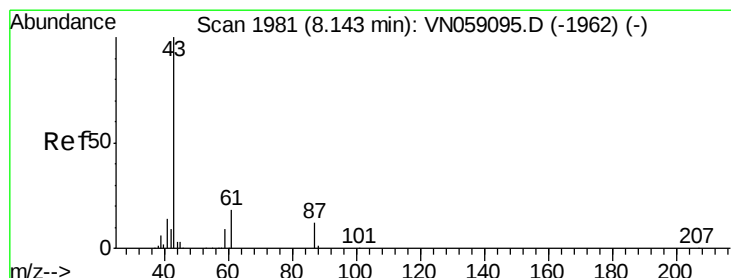
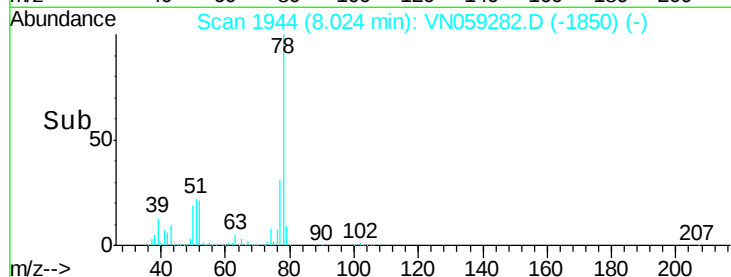
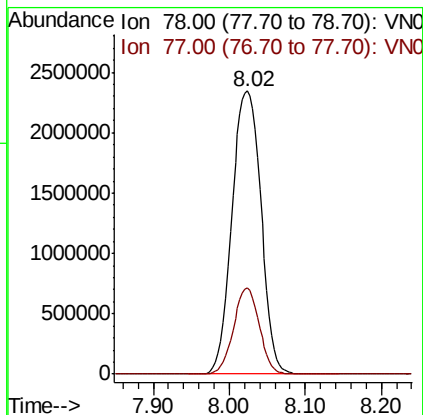
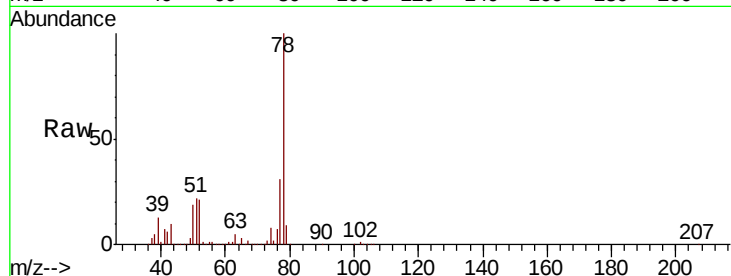
77 30.5 18.8 28.2#

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#43

Isopropyl Acetate

Concen: 14.133 ug/l m

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

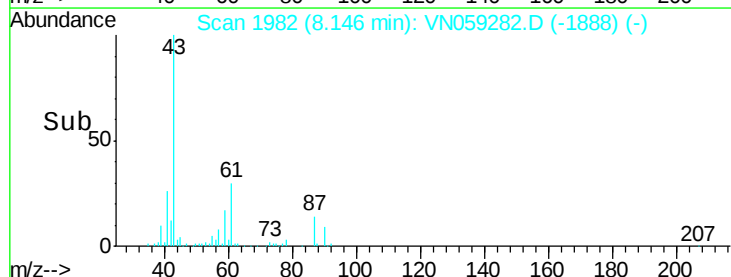
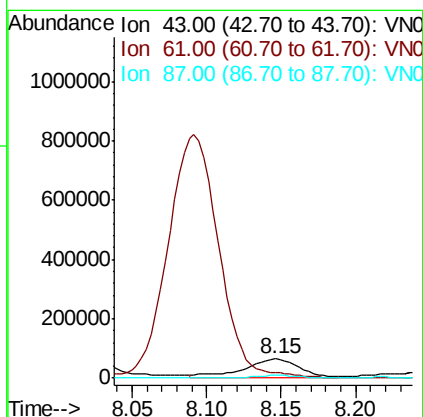
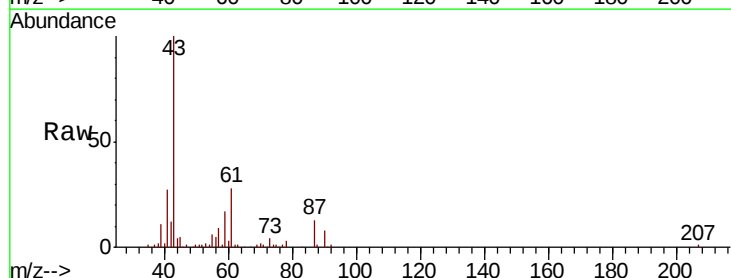
Tgt Ion: 43 Resp: 174387

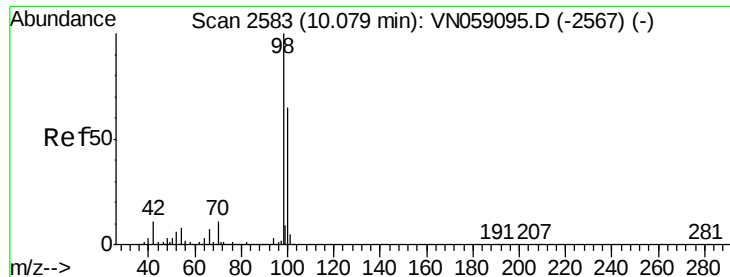
Ion Ratio Lower Upper

43 100

61 0.0 21.0 31.6#

87 0.0 9.8 14.6#





#50

Toluene-d8

Concen: 52.061 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

30695

Tot Ion: 98 Resp: 911384

Ion Ratio Lower Upper

98 100

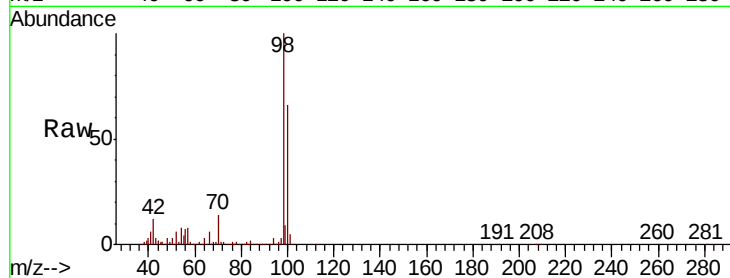
100 67.0 52.2 78.2

Manual Integrations

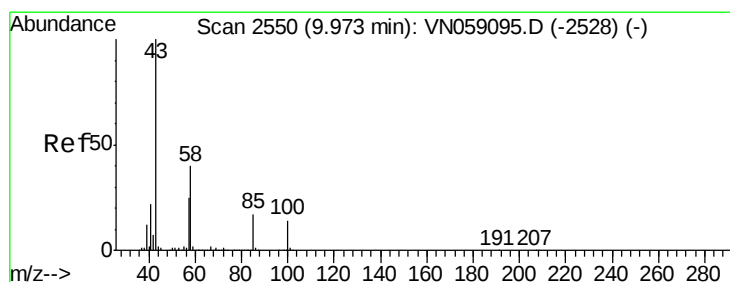
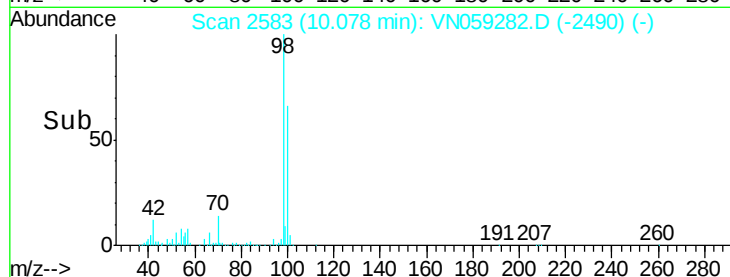
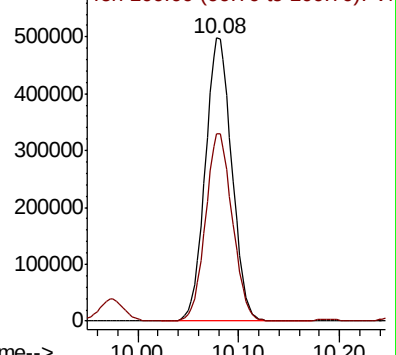
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Abundance Ion 98.00 (97.70 to 98.70): VN059282.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 67.115 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059282.D

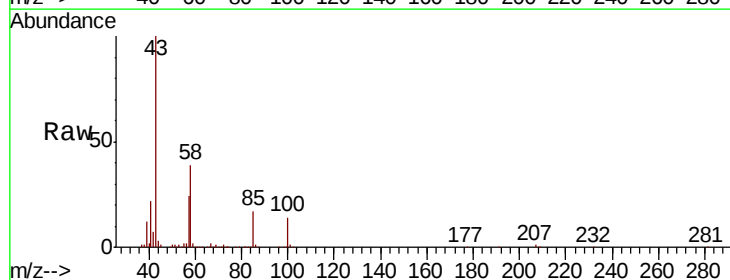
Acq: 18 Nov 2019 14:38

Tgt Ion: 43 Resp: 468584

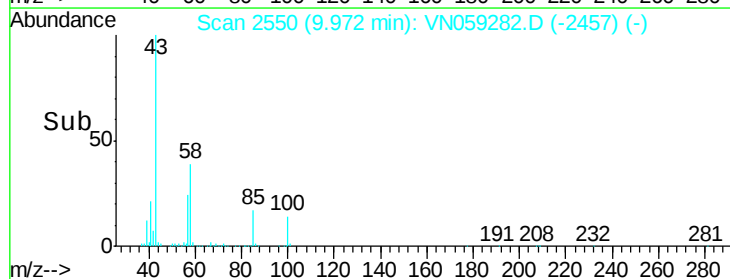
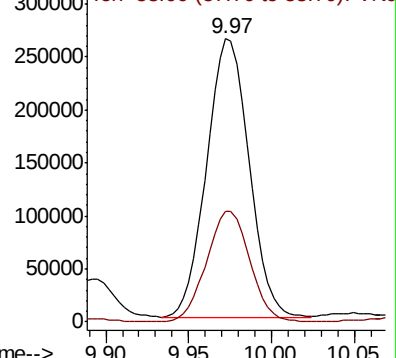
Ion Ratio Lower Upper

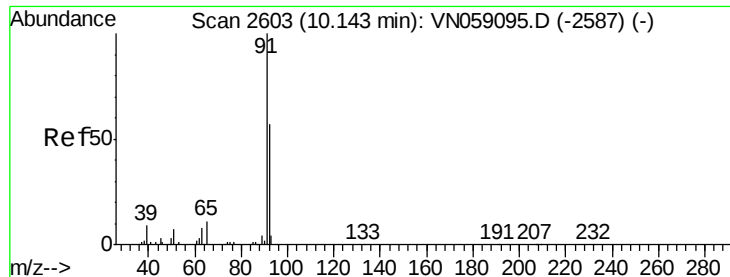
43 100

58 40.4 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN059282.D (-2457) (-)





#52

Toluene

Concen: 369.352 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

30695

Tot Ion: 92 Resp: 4638092

Ion Ratio Lower Upper

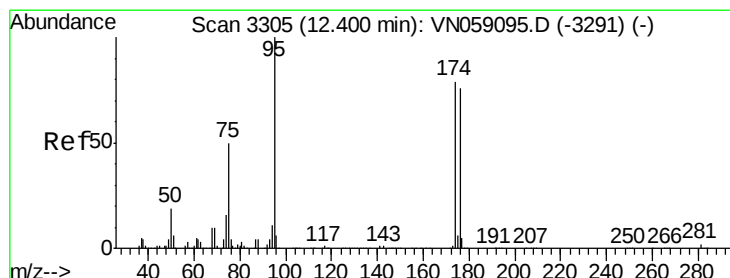
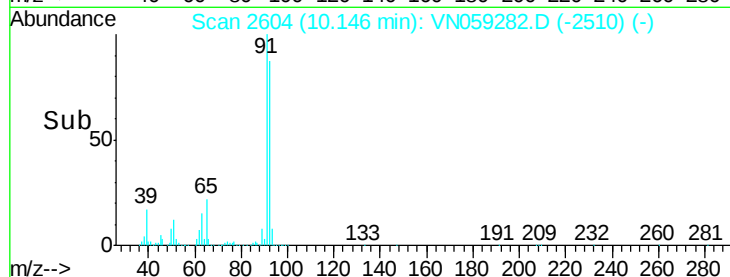
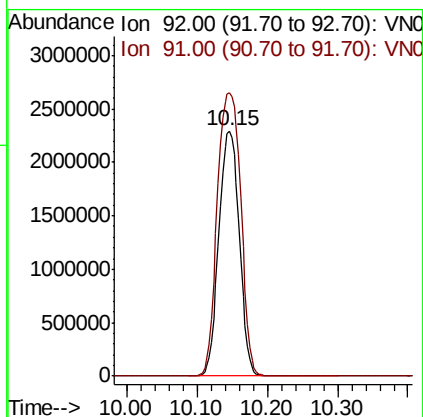
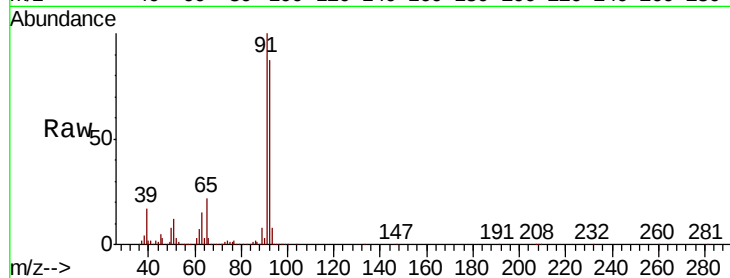
92 100

91 133.0 139.5 209.3#

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 52.225 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

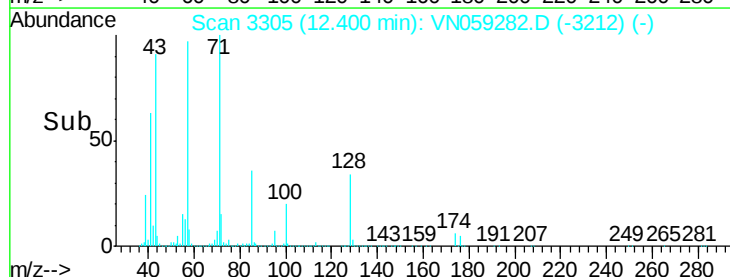
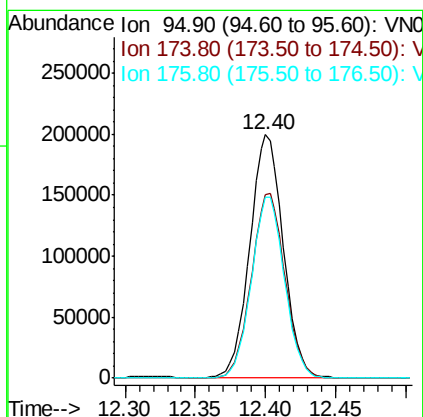
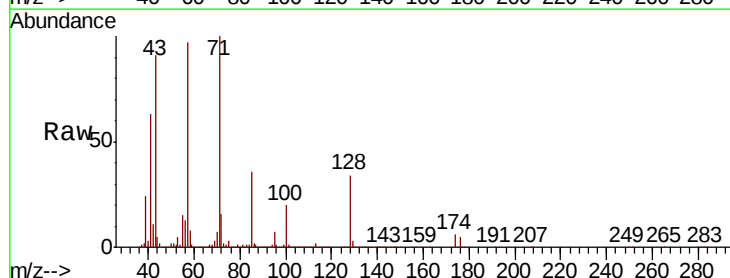
Tgt Ion: 95 Resp: 329647

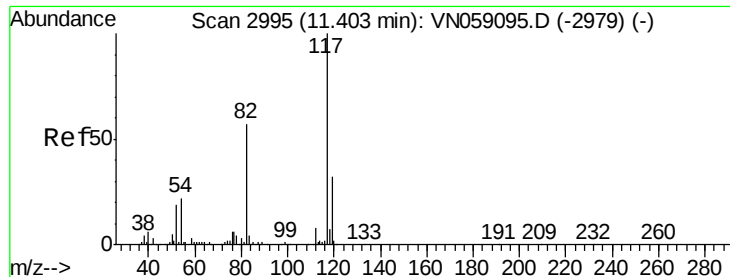
Ion Ratio Lower Upper

95 100

174 76.6 0.0 158.2

176 73.9 0.0 151.8





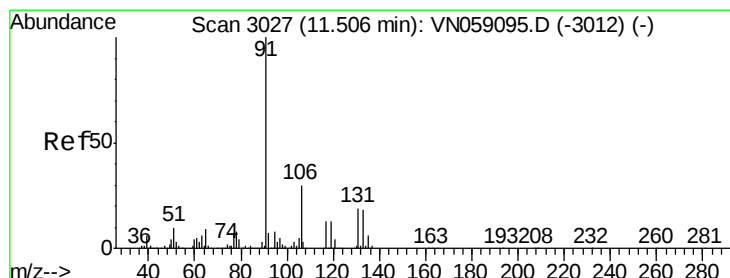
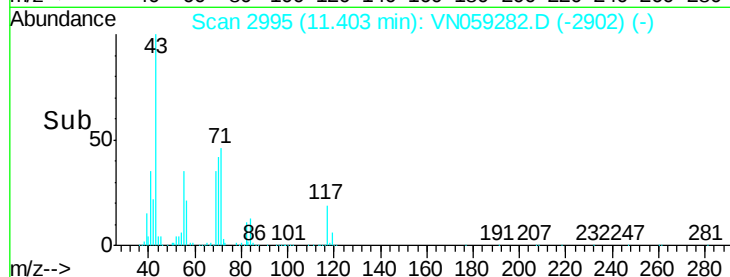
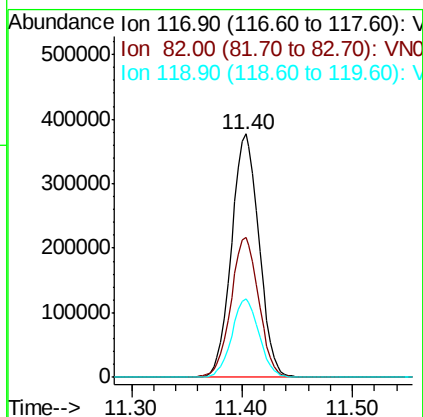
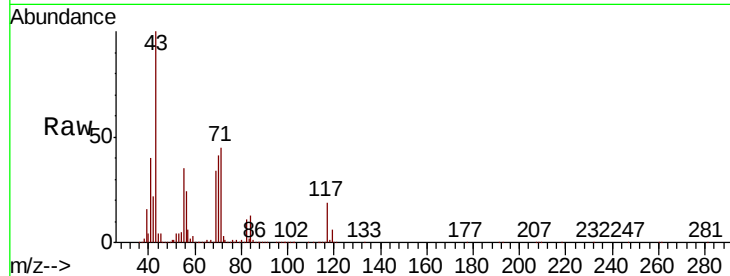
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampleId :
30695

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.8	68.8
119	32.3	25.8	38.6

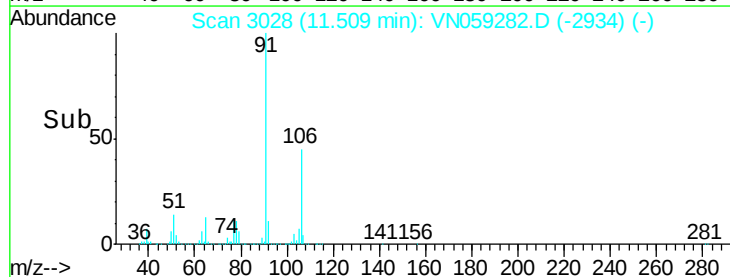
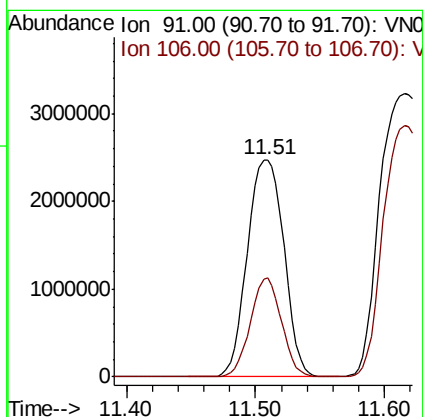
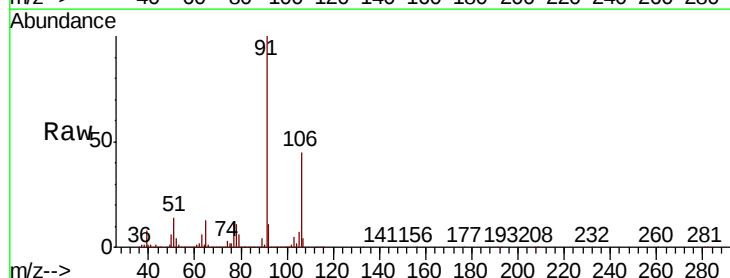
Manual Integrations
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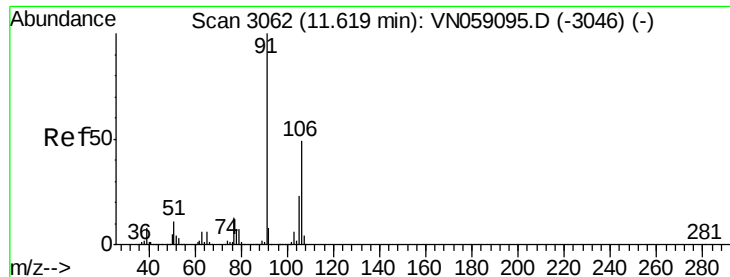
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#67
Ethyl Benzene
Concen: 216.970 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.5	24.1	36.1





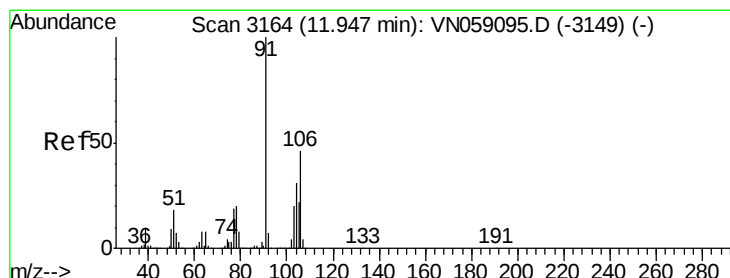
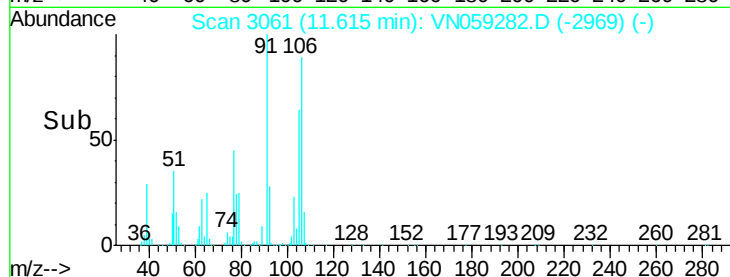
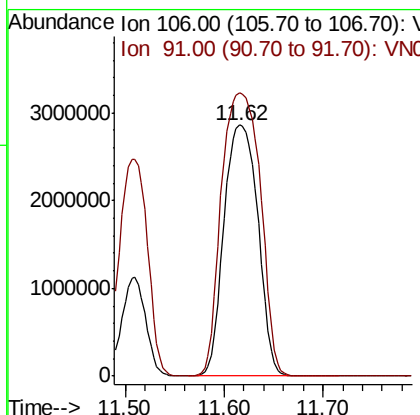
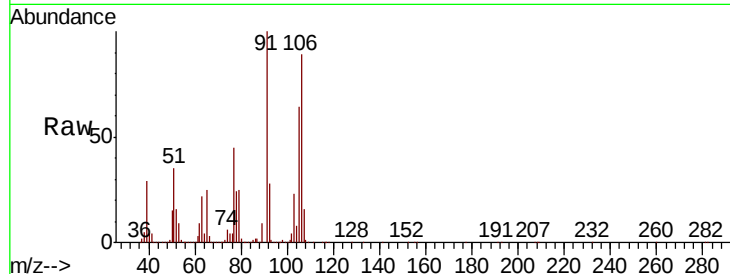
#68
m/p-Xylenes
Concen: 813.822 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampled :
30695

Tot Ion:106 Resp: 6872114
Ion Ratio Lower Upper
106 100
91 129.8 164.7 247.1#

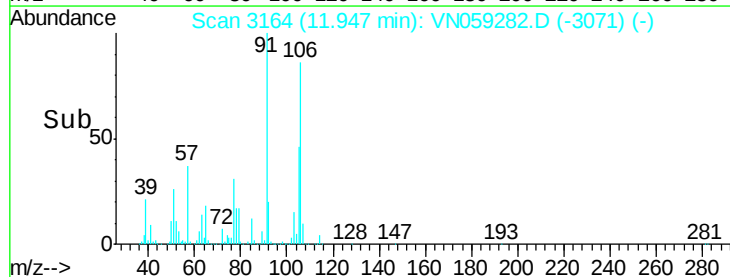
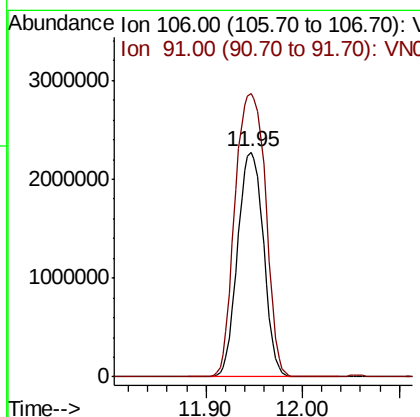
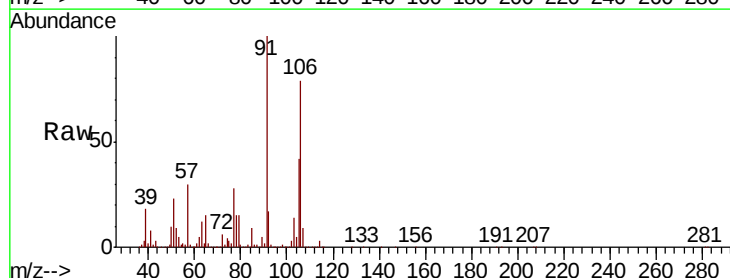
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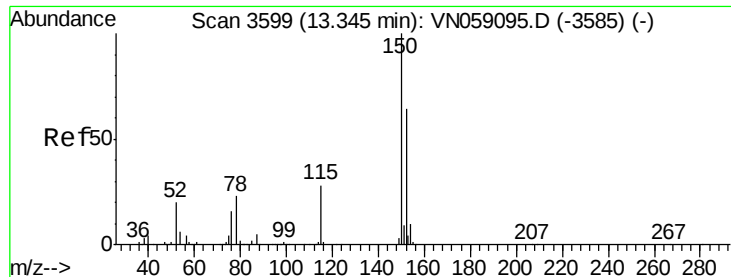
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#69
o-Xylene
Concen: 517.777 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Tgt Ion:106 Resp: 4225327
Ion Ratio Lower Upper
106 100
91 149.4 110.1 330.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3602

Delta R.T. 0.01 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

30695

Tot Ion:152 Resp: 511772

Ion Ratio Lower Upper

152 100

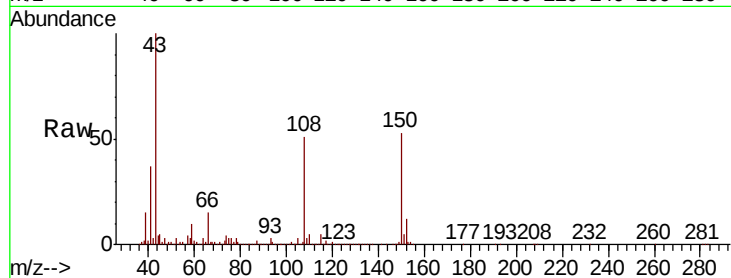
115 43.6 29.4 88.2

150 536.4 0.0 345.8#

Manual Integrations
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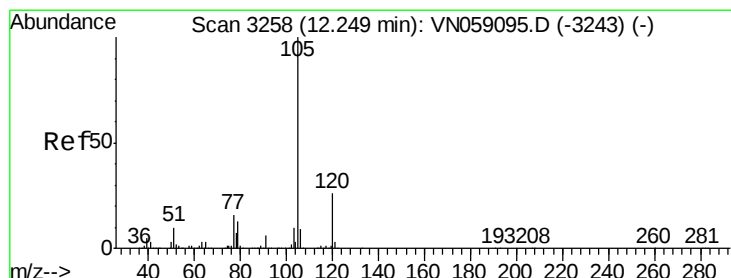
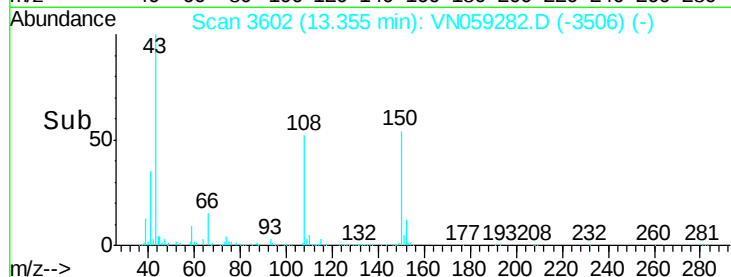
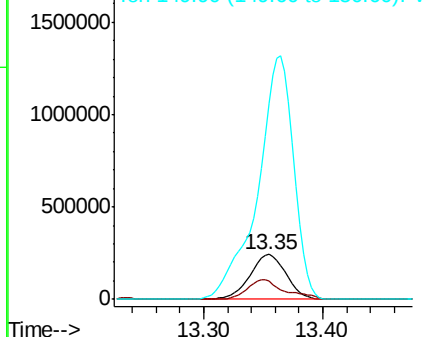
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 4.493 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059282.D

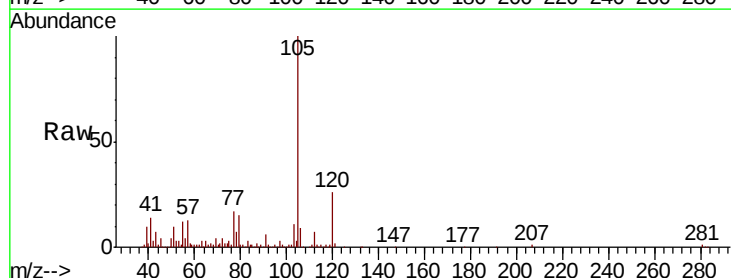
Acq: 18 Nov 2019 14:38

Tgt Ion:105 Resp: 167252

Ion Ratio Lower Upper

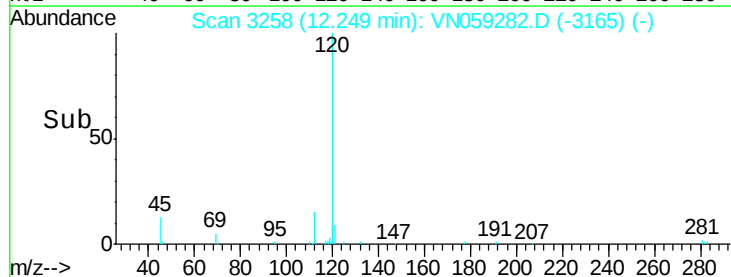
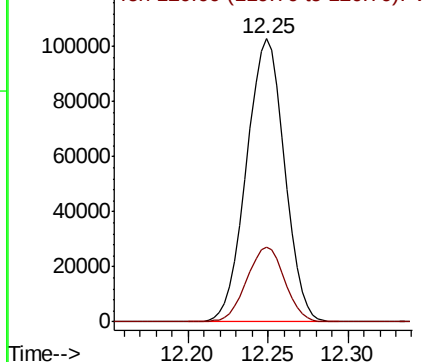
105 100

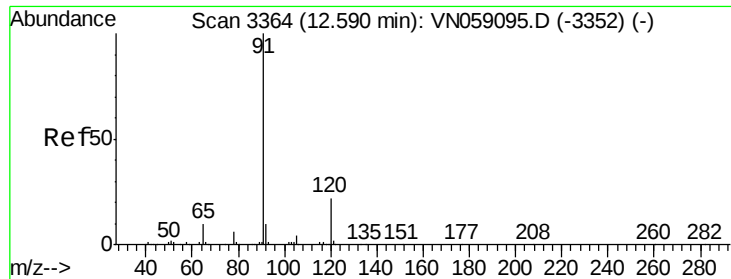
120 26.4 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 2.933 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampled :

30695

Tot Ion: 91 Resp: 125018

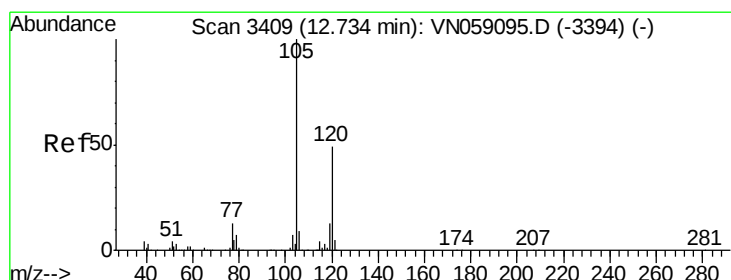
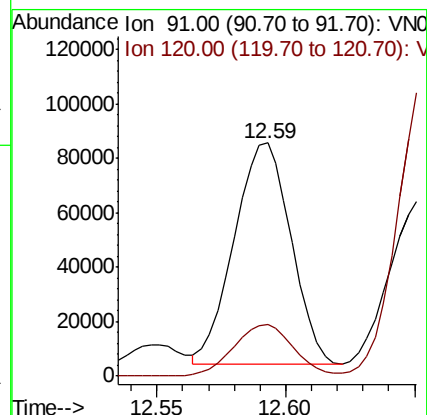
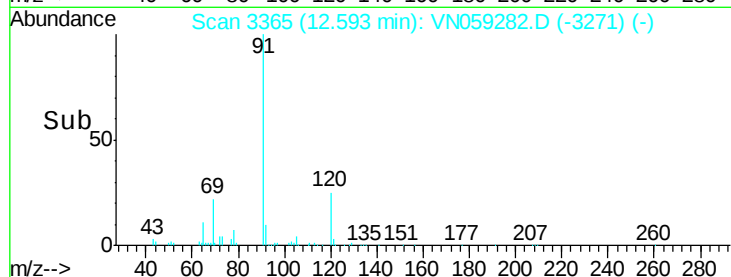
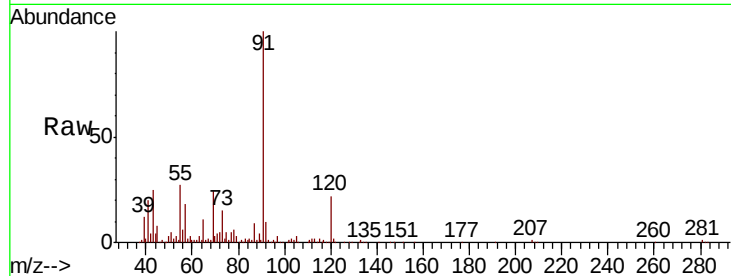
Ion Ratio Lower Upper

91 100

120 24.6 11.2 33.5

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#80

1,3,5-Trimethylbenzene

Concen: 12.359 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059282.D

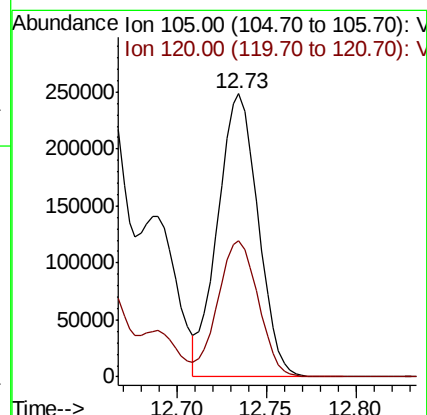
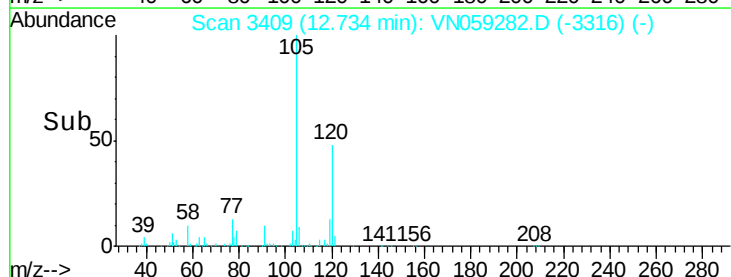
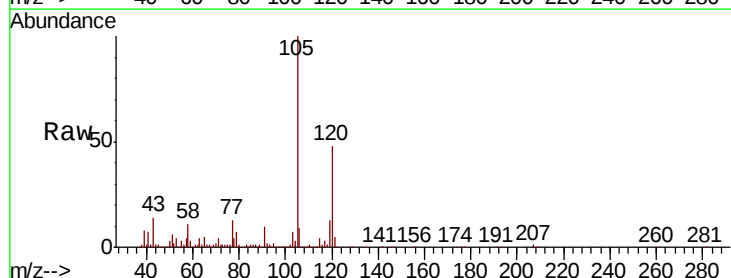
Acq: 18 Nov 2019 14:38

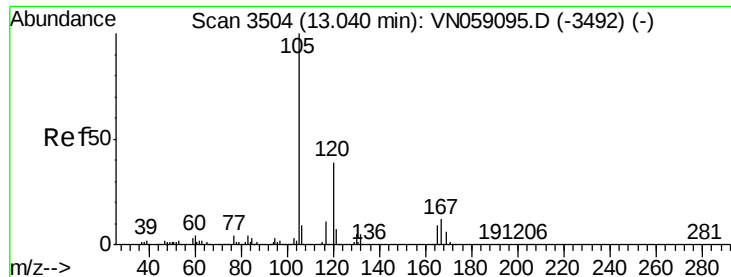
Tgt Ion: 105 Resp: 389844

Ion Ratio Lower Upper

105 100

120 48.2 24.0 72.0





#84

1,2,4-Trimethylbenzene

Concen: 47.911 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059282.D

Acq: 18 Nov 2019 14:38

Instrument :

MSVOA_N

ClientSampled :

30695

Tot Ion:105 Resp: 1462164

Ion Ratio Lower Upper

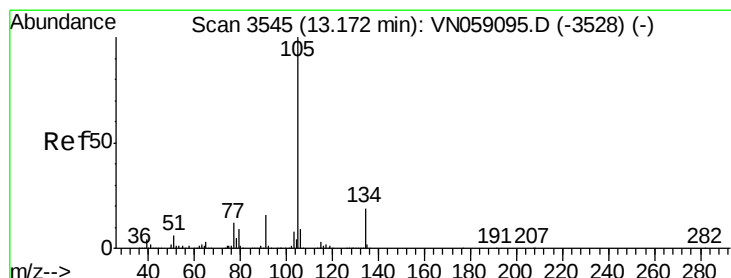
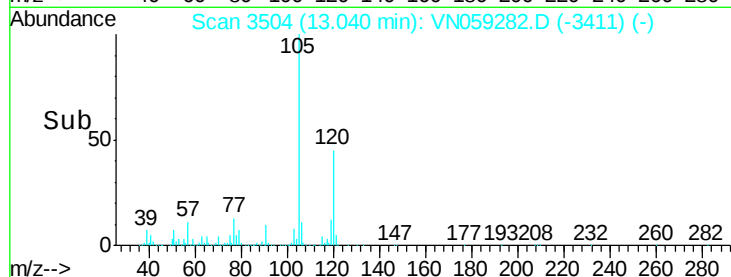
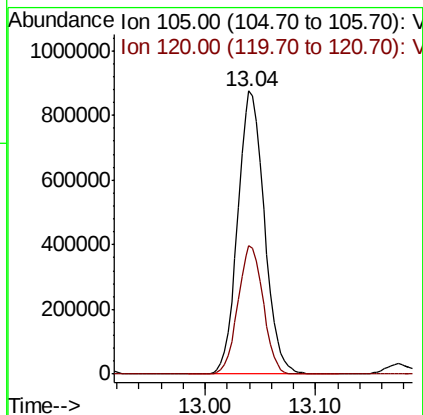
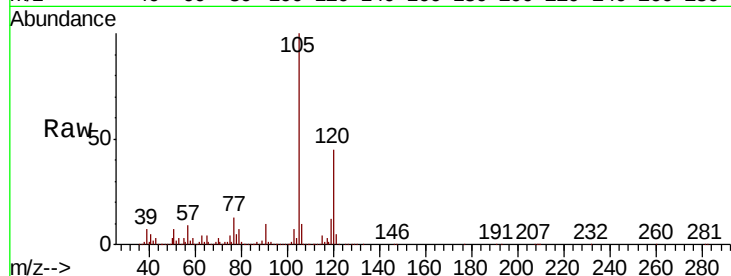
105 100

120 42.9 22.8 68.4

Manual Integrations
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#85

sec-Butylbenzene

Concen: 1.416 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059282.D

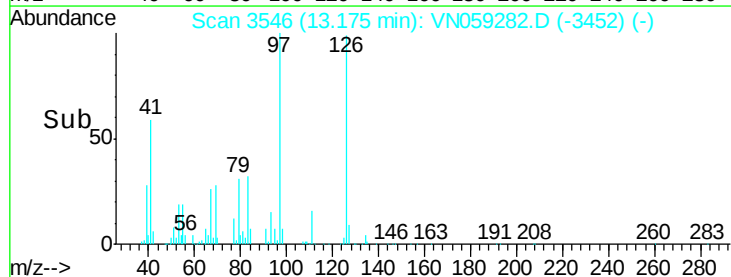
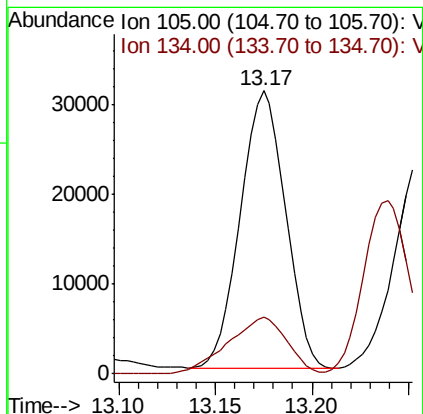
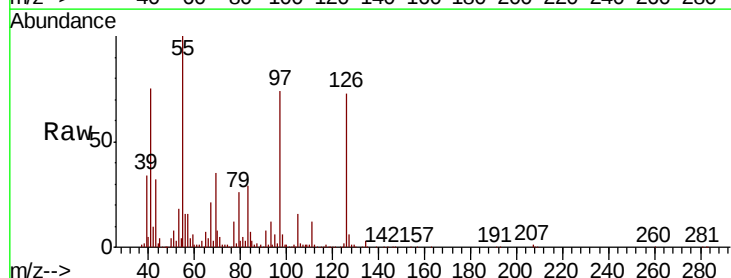
Acq: 18 Nov 2019 14:38

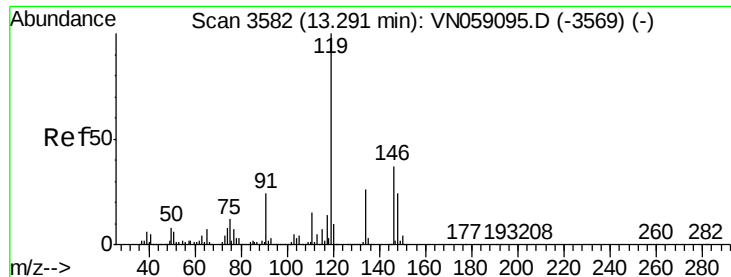
Tgt Ion:105 Resp: 50170

Ion Ratio Lower Upper

105 100

134 26.6 9.7 29.1





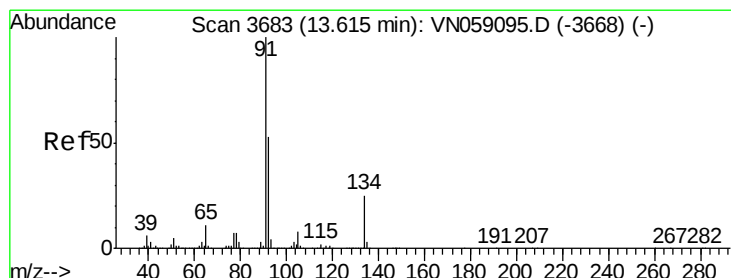
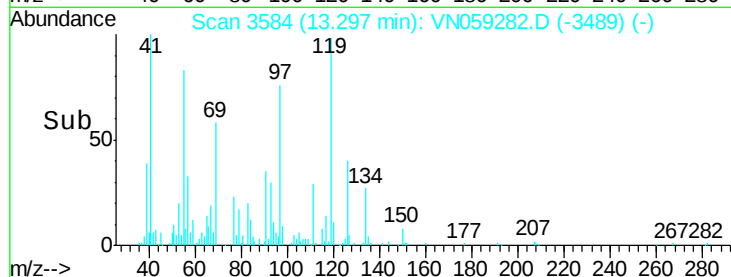
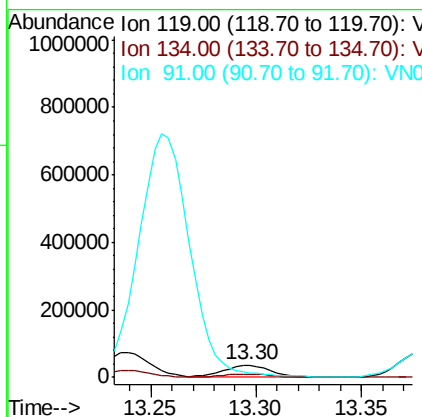
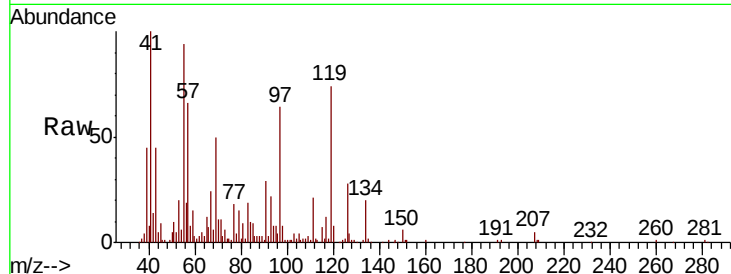
#86
 p-Isopropyltoluene
 Concen: 1.725 ug/l
 RT: 13.30 min Scan# 3584
 Delta R.T. 0.01 min
 Lab File: VN059282.D
 Acq: 18 Nov 2019 14:38

Instrument :
 MSVOA_N
 Client Sample ID :
 30695

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.7	13.0	38.9
91	0.0	11.7	35.1#

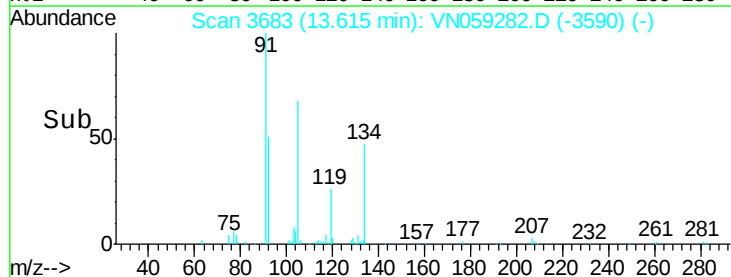
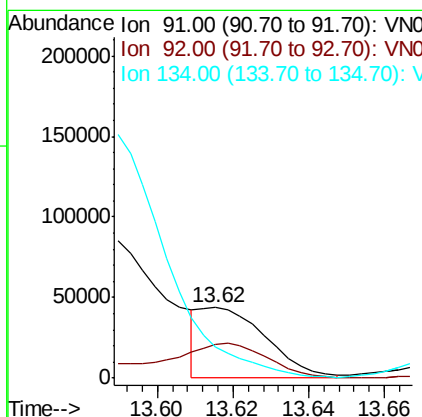
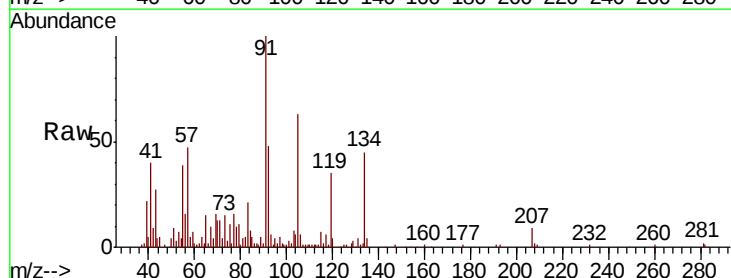
Manual Integrations
 APPROVED

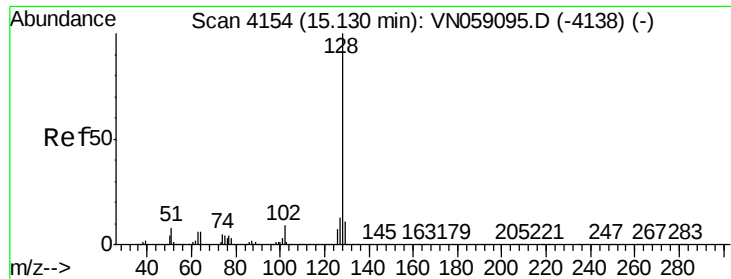
MMDADODA
 11/19/2019 11:03:04 AM



#89
 n-Butylbenzene
 Concen: 1.949 ug/l m
 RT: 13.62 min Scan# 3683
 Delta R.T. -0.00 min
 Lab File: VN059282.D
 Acq: 18 Nov 2019 14:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.1	78.3#
134	508.6	12.6	37.8#





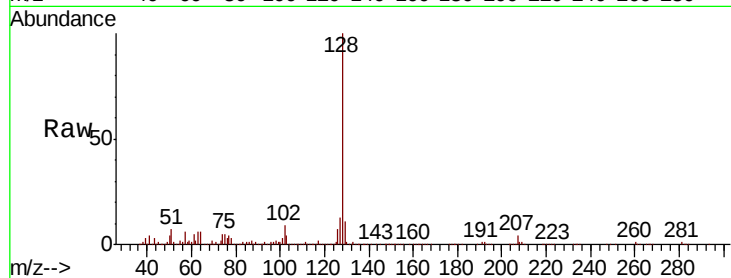
#95
Naphthalene
Concen: 36.793 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059282.D
Acq: 18 Nov 2019 14:38

Instrument :
MSVOA_N
ClientSampleId :
30695

Tot Ion	Ratio	Resp	Lower	Upper
128	100	953031		
127	12.8		10.2	15.2
129	12.6		8.6	12.8

Manual Integrations
APPROVED

MMDADODA
11/19/2019 11:03:04 AM



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

